ABSTRACT

Described herein are nitrite-oxidizing bacteria. Particular bacteria of the present invention are tolerant of saltwater environments, saltwater environments, or both. Furthermore, in various embodiments, various bacteria of the present invention are capable of surviving a freezing or freeze-drying process, and may remain viable thereafter. Methods for preventing or alleviating the accumulation of nitrite in aqueous environments are also provided, using the nitrite-oxidizing bacteria of the present invention. Methods for detecting the bacteria of the present invention are also provided. Compositions comprising the nitrite-oxidizing bacteria of the present invention and, inter alia, ammonia-oxidizing bacteria, are also provided.